

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
PC3-058SERIAL NO.  
10/698,579LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT: Yuichi Ikubo, et al

FILING DATE  
October 31, 2003GROUP  
1621

## U.S. PATENT DOCUMENTS

Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
SP	AA	1,132,636	03/1915	Taylor, et al			
	AB	1,926,395	09/1933	T. Midgley, Jr.			
	AC	1,926,396	09/1933	Midgley, Jr.			
	AD	2,021,981	11/1935	Bichowsky			
	AE	2,413,696	01/1947	Downing, et al			
	AF	2,456,028	12/1948	Simons			
	AG	2,519,983	08/1950	Simons			
	AH	3,080,430	03/1963	Cohen			
	AI	3,479,286	11/1969	Gambaretto, et al			
	AJ	3,656,553	04/1972	Rainaldi, et al			
	AK	3,715,438	02/1973	Huggett			
	AL	3,822,207	07/1974	Howard, et al			
	AM	3,844,354	10/1974	Larsen			
	AN	4,014,799	03/1977	Owens			
	AO	4,225,404	09/1980	Dietrich, et al			
	AP	4,226,728	10/1980	Kung			
	AQ	4,446,923	05/1984	Martin			
	AR	4,459,213	04/1972	Uchida, et al			
	AS	4,668,407	05/1987	Gerard, et al			
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	AU	4,826,610	05/1989	Thacker			
	AV	4,851,595	07/1989	Gumprecht			

EXAMINER

DATE CONSIDERED

4/27/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-010	SERIAL NO. 09/966,158	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yuichi Iikubo, et al		
				FILING DATE September 28, 2001	GROUP 1621	
<b>U.S. PATENT DOCUMENTS</b>						
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	AA	4,937,398	06/1990	Tung, et al		
	AB	4,945,119	07/1990	Smits, et al		
	AC	4,954,271	09/1990	Green		
	AD	5,040,609	08/1991	Dougherty, et al		
	AE	5,084,190	01/1992	Fernandez		
	AF	5,115,868	05/1992	Dougherty Jr., et al		
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<b>FOREIGN PATENT DOCUMENTS</b>						
	AM	CA 902590A	08/1962	Canada		
	AN	EP 0 039 471 A1	11/1981	Europe		
	AO	EP 0 253 410	01/1998	EPO		
	AP	EP 0 383 443 A2	08/1990	Europe		
	AQ	EP 0 434 409 A	06/1991	Europe		
	AR	EP 0 481 618 A1	04/1992	Europe		
	AS	EP 0 570 367 B1	11/1993	Europe		
	AT	RU 2068718 C1	08/1990	Russia		
	AU	1,546,505	09/1970	Germany		
EXAMINER		DATE CONSIDERED <span style="font-size: 1.5em; margin-left: 100px;">4/27/06</span>				
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FOREIGN PATENT DOCUMENTS, CONT.								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AA	WO 91/02564	03/1991	WIPO				
	AB	WO 91/04766	04/1991	PCT				
	AC	WO 91/12853	09/1991	PCT				
	AD	WO 98/37043	08/1998	PCT				
	AE	WO 03/029173	04/2003	PCT				
	AF	GB 1,132,636	11/1968	Great Britain				
	AG	JP 51034595	09/1974	Japan				
	AH	JP 57-93070-A	06/1982	Japan				
	AI	Laid Open Hei 1-115999	05/1989	Japan				
	AJ	Sho 50-50864 (Laid Open Sho 51-131100)	04/1975	Japan				
	AK	Laid Open Hei 4-96770	03/1992	Japan				
	AL	Sho 52-25679	07/1977	Japan				
	AM	Sho 48-19093	03/1973	Japan				
	AN							
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
	AA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vol. 23, No. 10, pp. 1203-1207			
	AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents, August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> pp. 1-90			
	AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destroying Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> pp. 1-11			
	AD	Wuebbles, Donald J., "Chlorocarbon Emission Scenarios: Potential Impact on Stratospheric Ozone", February 1983, <i>Journal of Geophysical Research</i> , Vol. 88, No. C2, pp. 1433-1443			
	AE	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methanes and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , 1982, 86, 2672-2676			
	AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, Report of the Halons Technical Options Committee, June 1989, Draft for Peer Review			
	AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogen Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> pp. 376-402			
	AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing, 1955, <i>National Advisory Committee for Aeronautics</i> , Technical Note 3565, pp. 1-30			
	AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt University in Berlin</i> Vol. 10, pp. 1-22 (translated)			
	AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing, 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8			
	AK	Smart, B.E., "Fluorocarbons", 1983, <i>The Chemistry of Functional Groups</i> Supplement D, Chapter 14, pp. 603-655			
	AL	Chemical Encyclopedia, "Bolshaya Rossiiskaya Entsiklopedia" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol			
	AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, Final Report of the Halons - Technical Options Committee, August 1989			
	AN	Reid, Robert C., "The properties of gases and liquids", 1987, pp. 153-157			
	AO	"Part IV The Evolution of the Montreal Protocol, 1987, Section 4.1 and 4.2, pp. 265-275			
	AP	Hynes, Robert G., et al., "Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule CF <sub>3</sub> CHFCF <sub>3</sub> ", 1999, <i>J. Phys. Chem. A</i> , Vol. 103, pp. 5461			
	AQ	Joint Assessment of Commodity Chemicals No. 24 <i>Pentafluoroethane (HFC 125)</i> , (ECETOC) May 1994, pp. 1420			
	AR	Kubota, Kazuo, "Current State and Measures Related to Chlorofluorocarbon Regulations, Part I, 1989, <i>Valqua Review</i> , Vol. 33, No. 2, pp. 1-8 (English translation - pp. 1-18)			
	AS	Malcolm, J.E., "Halogenated Extinguishing Agents", Part II Research at the Corps of Engineers' Laboratories 1951, <i>NFPA Quarterly</i> , pp. 119-131			
	AT	Nelson, Thomas P., "Findings of the Chlorofluorocarbon Chemical Substitutes International Committee, April 1988, <i>U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory</i> EPA/600/9-88/009, pp. 1-K6			
	AU	Smart, Bruce E., <i>Fluorinated Organic Molecules</i> , 1986, Molecular Structure and Energetics, Vol. 3, pp. 141, 152			
	AV	Tominaga, Takeshi, "Global and Technical Countermeasures Against Fluor", 1989, <i>The Nippon Kogyo Shinbun, Ltd.</i> , pp. 134-137, 156-163, 170-174 (English translation)			
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
	AA	Index to Decisions and Annexes of the Parties to the Montreal Protocol, Helsinki Meeting, p. 79128, 241, 1989.			
	AB	Marshal Sittig, Chemical Process Monograph No. 22, Fluorinated Hydrocarbons and Polymers, 1966, page 13.			
	AC	McLinden, Ph.D, Didion, Ph.D, "Quest for Alternatives", Ashrae Journal, December 1987, pgs. 6878.			
	AD	National Fire Protection Association, NFPA 2001 "Clean Agent Fire Extinguishing Systems" pps. 2004f and 2001-14			
	AE	Creitz, Journal of Research of the National Bureau of Standard, Vol. 65A, No. 4, pp. 389396 (1961).			
	AF	Simons, Fire Extinguishing Agents, in H.G. Bryce, Industrial Aspects of Fluorine Chemistry, at pages 35458, Vol. 5 of Hudlicky, Milos, Chemistry of Organic Fluorine Compounds (1962).			
	AG	R. Hirst and K. Booth, Measurement of Flame-Extinguishing Concentrations, Fire Technology, Vol. 13(4): 296315 (1977).			
	AH	Final Report on Extinguishing Agents for the Period September 1, 1947 to June 30, 1950 Covering Research Conducted by Purdue Research Foundation and the Department of Chemistry, Purdue University, Contract W44-009-engr 507, Army Engineers Research and Development Laboratories, Fort Belvoir.			
	AI	Research at the Corps of Engineers Laboratories, Halogenated Extinguishing Agents, NFA Quarterly pgs. 118-131, (October, 1951).			
	AJ	Decision of the Technical Board of Appeal Regarding European Patent No. 0439579, November 14, 2001.			
	AK	Banks, Findings of the Chlorofluorocarbon Chemical Substitutes International Committee, Appendix A: summary Report A-1-A-5, 05/1987.			
	AL	Hogue, Cheryl, "Substitutes for Halons: No One Chemical Suitable", Intl. Environment Reporter, Nov. 21, 1990, pp. 493-495.			
	AM	Federal Register Vol. 58, No. 90, May 12, 1993, pp. 2813628149 and 28176-28185.			
	AN	"FM-200®, The New Solution for Fire Protection", June, 1993, 11 pages.			
	AO	Moore, P.E., "Fluorocarbon Halon Alternatives", Fire Safety Engineering, 1997, 3 pages.			
	AP	Hampson, Roger D., "The Success of FM200®", Fire Safety Engineering, Vol. 2, No. 1, 1995, pgs. 2123.			
	AQ	"Kiddie FM-200® Fire Suppression Systems", May 1994, 2 pages			
	AR	"Real-Scale Halon Replacement Testing," CFC/Halon News, March 1996, one page			
	AS	FM-200® Waterless Fire Protection for Marine Applications, 2003, 8 pages			
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	AA	Burkland, Robert E., "When It Comes to Fire Protection - Speed Counts," Automotive Industry Agenda, March 2002, one page			
	AB	Mike Bennett, "Halon Replacement for Aviation Systems," International CFC and Halon Alternatives Conference, September 29 through October 1, 1992, Washington, D.C., pages 667672			
	AC	Thornton, Al, "FM-200, A Unique Fire Fighting Agent," 1997 Taipei International Conference on Ozone Layer Protection, December 10, 1997, 10 pages			
	AD	The Appeal Decision in invalidation action for Patent No. 2580075, 10 pages (translation)			
	AE	International Fire Protection, "Great Lakes Chemical Corporation - Company Profile," An MDM Publication, Issue 4, Nov/Dec 2000, 4 pages			
	AF	<a href="http://www.e1.greatlakes.com/wfp/product/isp/articles.jsp">http://www.e1.greatlakes.com/wfp/product/isp/articles.jsp</a> "Airports and Satellite Installations Protected by FM200®," "Healthcare Facilities Protected by FM200® Waterless Fire Protection Systems," "Museums and Cultural Landmarks protected by FM-200®," and "Casino Properties Protected by FM200®."			
	AG	Nimitz, et al., "Halocarbons as Halon Replacements: Technology Review and Initiation," New Mexico Engineering Research Institute, University of New Mexico, Final Report, March 1991, 141 pages			
	AH	"A Review of the Toxic and Asphyxiating Hazards of Clean Agent Replacements for Halon 1301," A Report by the Halon Alternatives Group, February 1995, 22 pages			
	AI	Hart-Winchester, "A Burning Issue: What Products Will Replace Halon 1301?" The Computer Operations Manager, March/April 1995, pages 13-18			
	AJ	Maranghides, et al., "Discharge System Modifications: Real Scale Halon 1301 Replacement Testing," Halon Options Technical Working Conference, Albuquerque, New Mexico, May 79, 1996, 12 pages			
	AK	Ellis, "Pleasure Boat Fire Extinguisher Choices," Burgee 26, November 1996			
	AL	"Scientific Assessment of Stratospheric Ozone: 1989", sponsored by the United Nations Environmental Program			
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